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FORM NMP

## **Nutrient Management Plan**

READ THIS BEFORE COMPLETING FORM: Before completing this form (Form NMP), Concentrated Animal Feeding Operation (CAFO) operators need to read the General Permit, particularly Part IV.A. CAFO operators also need to read the "Instructions For Filling Out Form NMP," found at the back of the Form. Form NMP is intended to help CAFO operators develop a site-specific Nutrient Management Plan, in compliance with Part IV.A of the General Permit and all applicable State rules and statutes. Your Nutrient Management Plan must be maintained at the site as required in Part III of the General Permit. Sections B and C on your Form NMP must state the information exactly the same way as it was stated on the most recently submitted version of your Form 2B. Attach additional pages as necessary, indicating the corresponding section number on this NMP form. For additional help in filling out this form please read the attached instructions. The 2008 General Permit, current fee schedule, and related forms are available from the Water Protection Bureau at (406) 444-3080 or <a href="http://www.deq.mt.gov/wqinfo/MPDES/CAFO.asp">http://www.deq.mt.gov/wqinfo/MPDES/CAFO.asp</a>

Section A - NMP Status	s (Check one):
New New New	o prior NMP submitted for this site.
☐ Modification C	hange or update to existing NMP.
Permit Number: MT <u>\$ 01</u>	20249 (Specify the permit number that was previously assigned to your facility.)
Section B - Facility or S	Site Information
Site Name DEAN AND	KAREN WANG RANCH
Site Location 199 YEI	LLOWBRICK ROAD, T6N,R59E, NEINEL SECTION 4
Nearest City or Town_B	AKER MT County FALLON
Section C - Applicant (	Owner/Operator) Information:
Owner or Operator Name	DEAN AND KAREN WANG
Mailing Address	PO BOX 702
City, State, and Zip Code	BAKER MT 59313
Phone Number (406)	778-3382 (WORK) 406-778-3672 (HOME)

Section	D	_	NMP	Minimum	Elemen
DOG- OM	~		TATATE	TAN 222 PROPERTIES	

1. Livestock Statistics		
1. Livestock Statistics		
1. CATTLE - STEER CALVES 350 HD 500#	55 DAYS - 9/1 TO 10/25	510 TONS
2.	350 X 55 DAMS X 53#÷ 2000	
3. CATTLE - HEIFER CALVES 100 HD 450#	55 DAYS - 9/1 TO 10/25	132 TONS
4.	100 X 55 X 48# ÷ 2000	
5. CATTLE - HEIFER CALVES 450 HD 550#	60 DAYS - 10/26 TO 12/25	810 TONS
6.	450 X 60 X 60# ÷ 2000	
7. CATTLE - HEIFER CALVES 450 HD 625#	60 DAYS - 4/1 TO 6/1	931 TONS
8.	450 X 60 X 69 <b>÷</b> 2000	
Method used for estimating annual manure production:	Total	2373
PAGE 13 & 14 DEO 9 TABLE 1	, DEQ 9, PAGE 13	
2 34		
2. Manure Handling Describe manure handling at the facility:	·	
BACKGROUNDING LOT WITH CONCRETE APP	ONS AND FENCELINE FEEDBUR	NKS.
SCRAPE AND SPREAD ON ADJACENT FIELD		
FRONT END LOADERS AND SKID STEER LO	ADERS. SPREADERS ARE TRUC	CK MOUNTED.
COMMERCIAL SIZE.		
Frequency of Manure Removal from confinement areas:		
	STOM FEEDLOT CLEANERS ARE	HIRED TO
SCRAPE PENS AND SPREAD ON THE FIELD	S WITH SPREADER TURCKS.	
Sthis manura temporarily atomatic and in and in a district the state of the state o		
s this manure temporarily stored in any location other the f so then how and where?	an the confinement area?	x No
s manure stored on impervious surface? Yes	No	
f yes, describe type and characteristics of this surface:		

· · ·						
3. Waste Control Structures PRO	Di JED - Pi	ER ATTACHE	D DIAGRAM			
					Cultion Cons	ellende
1. FILTER STRIP - NORTH LO	140	300				
2. CONSTRUCTION PER MT NRCS	FILTER ST	RIP SPEC	‡393			
3. GROUND SHAPING < 3% SLOP	PΕ					
4. FILTER STRIP SOUTH LOT	180	670				
5.						
6. CHANNEL CLEAN WATER TO 1	HE SOUTH F	ROM BUILD	INGS RATH	ER THAN	ALLOWING	IT
7. TO FLOW WEST THROUGH THE	SOUTH LOT					
8.						
9.			·			
10.						
11.						-
12.						
Disposal of Dead Animals Describe how dead animals are dispose DEAD ANIMALS ARE BURIED IN SECTION 4, T6N R59E.	AS SOON AF	TER DEATH				
TRAVELS THROUGH THIS ARE		S ARE COVE				
OF COVER. SEE ATTACHED						
S. Clean Water Diversion Practices Describe how clean water is diverted fr	•					
CLEAN WATER IS DIVERTED	ROM PRODU	CTION AREA	BY A NAT	URAL DI	VIDE UPON	J

WHICH THE BUILDINGS ARE LOCATED, AND DIKING BETWEEN BUILDINGS AND

PRODUCTION AREA TO CHANNEL WATER FROM THE HOMESTEAD TO THE SOUTH.

NATURAL DIVIDE REFLECTED ON MAP AS DOTTED LINE.

	ESTOCK W	ILL BE	FENCE	D AWA	Y FROM	4 ADJ	ACENT	DRAINA	AGES, G	GRASS	S FILT	ER
	IPS AND											
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escribe sed to co nclude a re not lir astalling ecreasin mounts o	lanagement in detail all ontrol runoff schedule for nited to: cor gutters, dov g open lot su of water for STING CON	temporar f of pollut r implementating vnspouts urface are cooling p	y, permandants from entation of ditches, and buries a; repair urposes;	nent and facility of each terrace do conding or a recyclic LDIN	ty's proof of these es, and we duits to dadjusting ing water	duction measu raterway ivert ro water s r if prace	res. Exys above of drain system at the sour	Indicate of tamples of tamples of the tamples of the tample of tam	the location of BMP man lot to dividing man man location of the location of th	on of leasure ivert core roer was	these mees could lean wat ofed are tage; using the street of the street	easures. include beer run on a; ng practi
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escribe sed to co clude a re not lir stalling ccreasin nounts EXI ARE	in detail all ontrol runoff schedule for mited to: congutters, doving open lot support water for STING CONAS WILL MT NRCS	temporar f of pollut r implementatructing waspouts urface are cooling p RRALS A BE REMO	y, permandants from entation of ditches, and buries a; repair urposes; AND BUILDING STRIE	nent and facility of each terrace ed conding or a recyclic LDIN LAND	ty's product of these es, and we did usting ing water GS LOC IN FI	duction measu raterway ivert ro water s r if prace ATED LTER	res. Exys above of drain system stical a SOUT	Indicate to tamples of the end open in age; pro- us to minimal application of the end of	the locatiff BMP man lot to dividing man mize water of the two series of the two ser	on of leasure ivert coore roore roore roore sand	these me es could lean wat ofed are tage; using PED AND	easures. include b er run on a; ng practi ENT D SEEDE
escribe sed to co clude a re not lir stalling ecreasin nounts EXI ARE PER BE	in detail all ontrol runoff schedule for mited to: cor gutters, down g open lot support of water for STING COMAS WILL MT NRCS	temporary f of polluter implementations was pouts aurface are cooling p RRALS A BE REMO FILTER D TO TH	y, permandants from entation of ditches, and buries a; repairing urposes; AND BUILDING STRIE	nent and facility of each terrace ed conding or a recyclic LDIN LAND SPE	ty's product of these es, and we had justing ing water IN FI CS #39	duction measuraterway ivert rowater strif practical treatment of the treat	res. Exys above of drain system stical a SOUT	Indicate to tamples of the end open in age; pro- us to minimal application of the end open in	the locatiff BMP man lot to dividing man lot to dividing man location by the location between	on of leasure ivert core rooter was CON SHAF	these me es could lean wat ofed are tage; using PED AND STEAD TO RACING	easures. include b er run on a; ng practi ENT D SEEDE VILL AND
escribe sed to co clude a re not lir stalling ecreasin nounts EXI ARE PER BE DIK	in detail all ontrol runoff schedule for mited to: congutters, doving open lot support water for STING CONAS WILL MT NRCS	temporary f of polluter implementations was pouts a cooling property RRALS A BE REMO FILTER D TO THE	y, permandants from entation of ditches, and buries a; repairing urposes; AND BUILDING STRIES OF TO SEED TO SE	nent and facility of each terrace ed conding or a recyclic LDIN LAND PARE SPE	ty's product of these es, and we had justing ing water GS LOC IN FI CS #39  AY FROTHE RU	duction measuraterway ivert rowater strif practice ATED LTER	ys above of drain system stical a SOUT STRIBLEAN SOU	Indicate to tamples of the end open in age; pro- us to minimal application of the end open in	the locatiff BMP man lot to dividing man lot to dividing man location by the location between	on of leasure ivert core roser was SHAF	these me es could lean wat ofed are stage; using the second of the secon	easures. include b er run on a; ng practi ENT D SEEDE VILL AND CLEAN

Describe in detail all temporary, permanent used to control runoff of pollutants from factorices. If not already in use, include a soldetails and specifications may be used to superinclude but are not limited to: maintaining solding irrigation practices to prevent ponding of was frozen ground; consulting with the Department ground; applying wastes at agronomic rates.	ility's land applicated applicated the design of the desig	cation area. Incomentation of each cription. Examp ace waters for manufactures items.	licate the locating of these measures of BMP meanure application in the property in the second secon	on of these ares. Attac asures cou ons; mana	e ched ild ging
Plant sampling/tissue analysis	yes/no	•	Rotational g	grazing	yes/no
Conservation or reduced tillage	yes/no	Manure inje	ction or incorp	oration	yes/no
Terraces or other water control structures	yes/no		Contour plant	ings	yes/no
Riparian buffers or vegetative filter strips	yes/no	Winter "scave	nger" or cover	crops	yes/no
Other examples					
MANURE TO BE SPREAD ON PERMAN	ENT CRESTED	WHEATGRASS	PASTURE.	APPLIE	D WELL
FROM DRAINAGE ON EAST AND NOR	TH.				
The permittee is required to develop guidance maintenance of the facility, and record keeping. Has a guidance document been developed for Certify the document addresses the following Implementation of the NMP:  [X] Yes Facility operation and maintenance:  [X] Yes Record keeping and reporting:  [X] Yes Sample collection and analysis:  [X] Yes Manure transfer:  [Yes Provide name, date and location of most reset reset reset and location of most reset reset.	ng as described in the facility?  requirements: No No No No No No No	Part II of the pe	MP, proper ope	eration and	1
Provide name, date and location of most receing MANAGEMENT PLAN PER NMP AND CN					
f your answer to any of the above question is NONE TRANSFERRED		nation			
				·	·

Section E - Land Application  Will manure be land applied to land either owned, rented, or leased by the owner or operator of the facility?  No If no, then provide an explanation of how animal waste at this site are managed.  X Yes If yes, then the information requested in Section E must be provided.  SEE ATTACHED TOPO AND FSA MAPS
Photos and/or Maps  Attach an aerial photograph or map of the site where manure is to be applied. (Use multiple photos/maps if necessary to show required details.) The photo(s)/map(s) must be printed on no larger than an 11"x17" piece of paper, and must clearly identify the following items:  Individual field boundaries for all planned land application areas  A name, number, letter or other means of identifying each individual land application field  The location of any down-gradient surface waters  The location of any down-gradient open tile line intake structures  The location of any down-gradient sinkholes  The location of any down-gradient agricultural well heads  The location of all conduits to surface waters  The specific manure/waste handling or nutrient management restrictions associated with each land application field.  The soil type(s) present and their locations within the individual land application field(s)  The location of buffers and setbacks around state surface waters, well heads, etc.
Land Application Equipment Calibration TECHNIQUE OF DEQ9 OR THEIR OWN PAGE 22 & 23  Describe the type of equipment used to land apply wastes and the calibrating procedures:  COMMERCIAL SPREADERS WILL BE HIRED. DOCUMENTATION OF THE METHOD OF
CALIBRATION WILL BE OBTAINED FROM THEM AS TO TYPE AND METHOD OF CALIBRATION.
Manure Sampling and Analysis Procedures A representative manure sample will be analyzed a minimum of once annually for Total Nitrogen, and Total Phosphorus. Analysis results will be reported in lbs/ton or lbs/1,000 gal. Results of these analyses will be used in determining application rates for manure, litter, and process wastewater.
Manure Sample collection will occur according to the following method:
☐ The recommended method(s) found in Section 5 of Department Circular DEQ 9 PAGE 21
Other (describe) ANNUALLY, ASKING FOR RESULTS IN POUNDS PER TON
Soil Sampling and Analysis Procedures  A representative soil sample from the top 6 inch layer of soil in each field will be analyzed for phosphorus content at least once every five years. Analyses will be conducted by a qualified laboratory, using the Olsen P test. Results will be reported in parts per million (ppm) and will be used in determining application rates for manure, litter, and process wastewater.
Soil sample collection will occur according to the following method:  The recommended method(s) found in Section 5 of Department Circular DEQ 9 PAGE 22
Other (describe) TEST EVERY FIVE (5) YEARS. SEE ATTACHED LETTER FROM FALLON/
CARTER EXTENSION AGENT. TESTING TO BE DONE BY LOCAL AGRONOMY CENTER.



02/09/09

To: Montana Department of Environmental Quality

From: Nico Gantalupo, MSU Fallon/Carter Counties Extension Agent

Fallon & Carter Counties

RE: Soil Nitrate and Phosphorous Levels for Fallon County

With regards to the levels of Nitrate and Phosphorous typically found in the soils in Fallon County. Using the Olsen P or bicarbonate P tests our soils typically run from 8-10 ppm which would qualify them as low or not a lot of phosphorous is available in our soils. For nitrates or N which is expressed in pounds available per acre, the same holds true as phosphorous the available N in our soils is low, typically less than 20# available per acre. With these levels you can also conclude that the organic matter, OM, levels are typically well below 2%.

Montana State University, U.S. Department of Agriculture and Montana Counties Cooperating, MSU Extension is an equal opportunity/affirmative action provider of educational outreach.

10 W. Fallon P.O. Box 850 Baker, MT 59313-0850 www.msuextension.org

Tel

(406) 778-7110

Fax Email (406) 778-3431 falloncarter1@montana.edu

Mountains & Minds

Land Application Data-Narrative approach

The following must be filled out <u>for each field</u> to which manure, litter or process wastewater will or may be applied for the period of the permit (5 years). Use as many sheets as necessary to fulfill this requirement. <u>Fields</u> with identical crops and soil types may be grouped together.

Crops and Manure	
Crop 1 (year 1 or ?) plant species	
	CRESTED WHEATGRASS
Irrigated (Y/N)	N/A
Yield Goal (ton/ac or bushel/ac) FERT GUIDE P. 48 DEQ9	3/4 T/AC
N Content of soil as nitrate (lbs/acre or ppm) P. 52	16 #/AC - COUNTY AVE.
P Content of soil as P <sub>2</sub> O <sub>5</sub> (lbs/acre or ppm) P. 69	8 - 10 PPM
Time of Year When Application will Occur (month)	AUGUST
Application frequency (per year by month)	1 TIME PER YEAR
Form of manure (liquid/solid)	SOLID
Method of Application	COMMERCIAL SPREADER
Is manure incorporated or broadcast?	BROADCAST
Frequency of Application (yearly, biannual, etc.?)	ANNUAL
Crop 2	
Irrigated (Y/N)	
Yield Goal (ton/ac or bushel/ac)	
N Content of soil as Nitrate (lbs/acre or ppm)	
P Content of soil as P <sub>2</sub> O <sub>5</sub> (lbs/acre or ppm)	
Time of Year When Application will Occur (month)	
Application frequency (per year, by month)	
Form of manure (liquid/solid)	
Method of Application	
Is manure broadcast, injected or incorporated?	
Frequency of Application (Annual, Biannual, ,etc?)	

#### **Phosphorus Risk Assessment**

The permittee shall assess the risk of phosphorus contamination of state waters. An assessment shall be conducted for each field, under the control of the operator, to which manure, litter or process wastewater will or may be applied. If a new field is added in the future, then the permittee must submit a revised (modified) NMP. The permittee has the option of using either Method A or Method B (below) to complete the assessment. Copies of all tables and calculations used to complete the assessments, as well as the results of the assessments, shall be submitted to the Department and copies shall be maintained on-site at the facility and available for Departmental review. The results of the assessments shall be used to determine the appropriate basis for land application of wastes from the facility.

#### **Method Used**

Indicate which method will be used to determine phosphorus application:

X Method A – Representative Soil Sample

Method B – Phosphorus Index

### Method A - Representative Soil Sample

a) Obtain one or more representative soil sample(s) from the field.

b) Have the sample analyzed for Phosphorus by a qualified lab. The "Olsen P test" must be used for the analysis, and the result must be reported in parts per million (ppm).

c) Using the results of the Olsen P test, determine the application basis according to the Table below

Soil Test	·
<25.0	Nitrogen Needs Of Crop
25.1 - 100.0	Phosphorus Needs Of Crop
100.0 - 150.0	Phosphorus Needs up to Crop Removal Rate
>150.0	No Application

### Method B – Phosphorus Index N/A

a) Complete a Phosphorus Index according to for each crop grown on each field. Complete table in Appendix A to calculate phosphorus index. For information on filling out specific sections Appendix A, please refer to Attachment 2 of Department Circular DEQ 9.

b) Using the calculated Total Phosphorus Index Value, assign the overall site/field vulnerability to phosphorus loss according to the table below.

Total Phosphorus	
Daniel Committee Com	
<11	Low
11-21	Medium
22-43	High
>43	Very High

c) Using the calculated Site Vulnerability to Phosphorus Loss, determine the appropriate application basis according to the table below.

Site Vulnerability to Phosphorus Loss	
Low	Nitrogen Needs
Medium	Nitrogen Needs
High	Phosphorus Need Up to Crop Removal
Very High	Phosphorus Crop Removal or No Application

d) The permittee will complete the *Nutrient Budget Worksheet*, below, for ε crop grown on each field to which manure or process waste water is or may be applied during the first year of application. A copy of each Nutrient Budget Worksheet will be maintained on site, and a copy will be submitted to the Department.

Nutrient Budget Worksheet				
Site/Field:				
	Crop Nutrient Needs, lbs/acre included in	Section 1997		
()	Department Circular DEQ 9 P.52	15#/AC	N/A	
(-)	Credits from previous legume crops, lbs/acre (from DEQ-9), as applicable	-0-	N/A	
(-)	Residuals from past manure production, lbs/acre (lbs/acre applied in previous year(s) x fractions listed in DEQ-9)	-0-	N/A	
(-)	Nutrients supplied by commercial fertilizer and Biosolids, lbs/acre	-0-	N/A	
(-)	Nutrients supplied in irrigation water, lbs/acre	-0-	N/A	
(A)	= Additional Nutrients Needed, lbs/acre	15#/AC	N/A	
	Total Nitrogen and Phosphorus in manure, lbs/ton or lbs/1,000 gal (from manure test)	TABLE 2 DEQ 9 P.1	4 N/A	
(x)	Nutrient Avalability factor (for Nitrogen	TABLES 11,12 P. 27 & 28 DEQ	N7 / 7	
•	based application see DEQ-9, below; for		N/A	
	Phosphorus based application use 1.0)  = Available Nutrients in Manure,	. 5		
(B)	lbs/ton or lbs/1,000 gal	10.5#/TON	N/A	
			N/ A	
(A)	Additional Nutrients needed, lbs/acre (calculated above)	15#/TON	N/A	
(/)	Available Nutrients in Manure, lbs/ton or lbs/1,000 gal (calculated above)	10.5#/TON	N/A	
A/B	= Manure Application Rate, tons/acre or 1,000 gal/acre	1.43 T/AC	N/A	
Comments:				
ONLY CROP IS CRESTED WHEATGRASS. NO CROP ROTATION.				
NO PLAN "B"				
MANURE APPLICATION RATES WILL BE ADJUSTED ANNUALLY BASED UPON				
MANURE ANALYSIS AND SOIL SAMPLES.				

#### Section I

#### **Permittee Information:**

This Form NMP must be completed, signed, and certified as follows:

- For a corporation, by a principal officer of at least the level of vice president;
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

# All Permittees Must Complete the Following Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information; including the possibility of fine and imprisonment for knowing violations. [75-5-633, MCA]

### A. Name (Type or Print)

DEAN WANG

B. Title (Type or Print)  OWNER	<b>C. Phone No.</b> 406-778-3672 H 406-778-3382 W	
D. Signature	E. Date Signed	
a). Odu Illana	2/11/09	

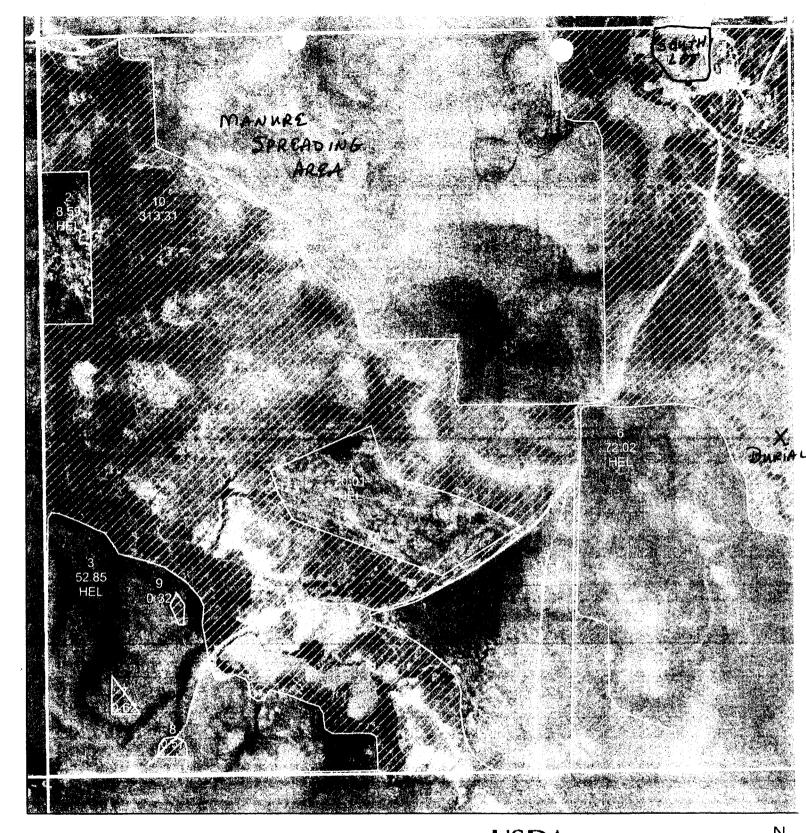
Return the Form NMP, Nutrient Management Plan to:

Department of Environmental Quality
Water Protection Bureau
PO Box 200901
Helena, MT 59620-0901
(406) 444-3080

RECEIVED

FEB 1 8 2009

DEQ/WPB PERMITTING & COMPLIANCE DIV.



February 14, 2008

Farm - Tract 2266---1632

Section-Township-Range 4 6 59

Dean Wang

# **Fallon County**

Rangeland

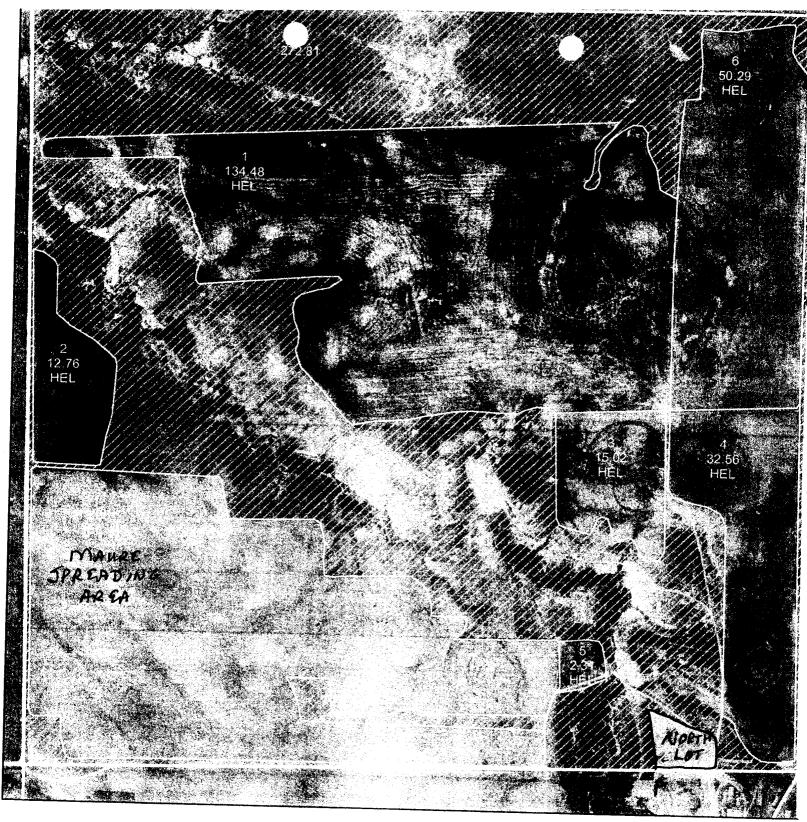


but vary from map to map.

### USDA Farm Service Agency

This map is for USDA-FSA Program administration only. There is no guarantee or representation as to the accuracy, currency, suitability or reliability for any other purpose. The user accepts the map"As Is"and assumes all risks associated with its use. Map is to scale.

Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.



February 14, 2008

Farm - Tract 2266---1202

Section-Township-Range 33 7 59

Dean Wang

# **Fallon County**

Rangeland

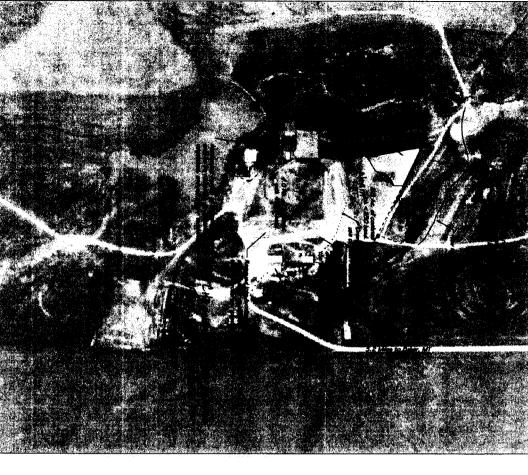


## USDA Farm Service Agency



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Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS



Section 4 T6N R59E FALLON COUNTY MONTANA ij 335

CIT YOU ECUBER BOOK/ET/O

DESIGN NOTES: 1. Fitter Strip = 1.0 Ac.
2. Fitter Strip = 2.0 Ac.
3. Shapmin = 3.6 Ac.
3. Shapmin = 3.6 Ac.
4. Stade = sed speaksation
5. Farmeter Fance (moved Portion) = 1.00 ft
6. Farmeter Fance North Fan = 330 ft

The existing system has a functioning clean water diversion. The area east of the county road mainly the farm yard, around the pens. 3. The easing shoots and woring comis located orths south west along with a corner of the north let will be removed and resuperated. The woring comit area will be priced text, into instrumt lowing computation and remarged as filter stripe. The north corner will simply be reclaimed, elementary the protocos of this let that rure into the creat with table treatment. The current system is actup to ope storage area.

of 400 head and a max

umum of 500 hd, on

taly 6.0 acres including feed

MONTANA

e leadincess road running north and south directs runoff from the dramage. This dramage is larly small due to the county road calvert locations.

4. The access road to the facility on the west side of the creak will be moved to the other side of the dark, the area will be planted into the filter step for the cort hyer. The mail to teptometricity 2.0 cares thereof by 1.0 acres of filter (2001) will be treatment forw in major (400 to 1.0 to acres will be nowed to recoverage the registration to long interest in normals provided by the reset. The upper protect of the filter step may need to be classed occasionally to present a cold healthy. Acether management option would be to given as it is a proper protect (februse short duration grams), however the last an option until registration to fully distribution.

5. The second filter step sall to incided where the working facilities are removed and all the area set of the permet area. There sall he approximately 4.0 across of their permet of the facilities from length of 1.00 to 1.07 feb. 26/08, and (0.07 t). The area said to mount to occurage the negations to keep taking the incident provided by riself. The approximant of the face step may need to be obsered occurrently to provide a delication, incident management option would be to graze as reprint products to the devices allowed the control of the second overcomments.

6. Grass shall be established in the reclaimed areas. The reclaimed areas will need to be planted to a plant species that can handle the intrinsits will grass can be established. A couple years of grain is a possibility, their sof least and plant to grass if least are reasonable. Another options is to harvest the beat when justified removing the interiorst this way and feeding towards as a lay product, then once again text soil and print to grass when foreits are tolerable by the required grass spaces stated in the Critical Area Seeding Specification.

The lots naturally are graded to one litter styp or the other and there shall be no ponding of water in the peris. When cleaning the peris do not peak manure along the fence and, as we want the resoft to have access to the litter in a laminar flow pattern.

6. The filter styps will be constructed to meet Montan MRCS filter Styp Specification 350 for managing part and sectors from inestication confinement areas. The filter styps will have contain matter based on the slawly to achieve the register for a C.5 % slape across the width to make items from the filter styps are 300 ft and 670 ft, the width of both permitted from the filter styps are 300 ft and 670 ft, the width of both permitted for a length of 40 ft members are as a member of 400 ft length or specific and a length or specific and a length of 400 ft length or specific and first the filter styp and from the filter styp and for the filter styp and state of the filter styp and not state of the filter styp and not be agenticant and will not be a point source with the adultorial biffer between the filter styp and state out.

etation shift lee planted to bake the nationate in the full soil profile following the Fiter Stry Lobe sheet 353. The ingeptation will see vents throughfort the cook zone of 5 ft, by planting species with different cooking depits, and season of use. There is also the torn of planting with shallow corrugations to hope insure immer flow the full length of the filter strys.

10. The soil type based on the INCCS soil Survey and a hole daily on the site is a Liam and City loam and more siting city form obsert to the creat. This filter should underputely bear the more lively a winderly of species to unknown the motivers in the critical rock some. No says of species to unknown the motivers in the critical rock some. No says of species loss unknown size in the critical species of the filter.

nent Plun (NMP). The lobs are cleaned post synning Cotcher. MRCS suggest learning seneral niches of Mour dealming or prior to animals reestablishing the the system. The removed must a shall be applied at the cyclem. The removed must shall be applied in on current soils sample and manure samples results.

ALTANDE SOL

PLAN MAP AFO - EQIP DEAN WANG